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 Gans, Herbert J.: "Underclass": problems with the term (letter). p1472 22 June 1990.  
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 Gayle, Frank W.: Quasicrystal publications (letter). p944 25 May 1990.  
 Gee, J. B. L. See Mossman, B. T.  
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 Geiduschek, E. Peter. See Herendeen, Daniel R.  
 Gerken, Steven C. See Barker, David F.  
 Gertler, Frank B.; Doctor, John S.; Hoffmann, F. Michael: Genetic suppression of mutations in the *Drosophila* *abl* proto-oncogene homolog. p857 18 May 1990.  
 Ghillani, Pascale. See Bidart, Jean-Michel.  
 Ghosh, Tarun K.; Bian, Junhui; Gill, David L.: Intracellular calcium release mediated by sphingosine derivatives generated in cells. p1653 29 June 1990.  
 Gibbons, Ann (news): Astronomers want new optical telescopes, but . . . p806 18 May 1990. Billion-dollar orphans: prescription for trouble. p678 11 May 1990. Biotechnology takes root in the Third World. p962 25 May 1990. Growing crops in saltwater. p963 25 May 1990. Is AIDS dementia due to increases in calcium?



- p303 20 Apr 1990. New head for the WHO global program on AIDS. p1306 15 June 1990. New view of Amazonia. p1488 22 June 1990. U.S. math still in poor health. p676 11 May 1990. Watching the dietary detectives. p1188 8 June 1990. What's the sound of one ocean warming? p33 6 Apr 1990.
- Gibson, K. A. See Park, M. A.
- Gibson, Michael A. See McKinney, Frank K.
- Giese, Neill. See LaRochelle, William J.
- Gill, David L. See Ghosh, Tarun K.
- Gill, J.; Torssander, P.; Lapiere, H.; Taylor, R.; Kaiho, K.; Koyama, M.; Kusakabe, M.; Aitchison, J.; Cisowski, S.; Dadey, K.; Fujioka, K.; Klaus, A.; Lovell, M.; Marsaglia, K.; Pezard, P.; Taylor, B.; Tazaki, K.: Explosive deep water basalt in the Sumisu backarc rift. p1214 8 June 1990.
- Gillis, Steven. See Fanslow, William C.
- Gilpin, Michael: review of *Biological Invasions*, edited by J. A. Drake et al. p88 6 Apr 1990.
- Girard, Thomas J.; MacPhail, Louise A.; Likert, Karen M.; Novotny, William F.; Miletich, Joseph P.; Broze, George J., Jr.: Inhibition of factor VIIa-tissue factor coagulation activity by a hybrid protein. p1421 15 June 1990.
- Girvin, Steven. See Canright, Geoffrey.
- Glazner, A. F. See Bartley, J. M.
- Glymour, Clark: review of *Einstein and the History of General Relativity*, edited by Don Howard and John Stachel. p878 18 May 1990.
- Goda, Yukiko. See Draper, Rockford K.
- Godwal, B. K.; Meade, Charles; Jeanloz, Raymond; Garcia, Alberto; Liu, Amy Y.; Cohen, Marvin L.: Ultrahigh-pressure melting of lead: a multidisciplinary study. p462 27 Apr 1990.
- Golden, Teresa. See Frank, Douglas G.
- Goldfarb, Alex. See Kashlev, Mikhail.
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- Good, Robert A.: The value of animal research (letter). p538 4 May 1990.
- Goodnow, Christopher C.; Adelstein, Stephen; Basten, Antony: The need for central and peripheral tolerance in the B cell repertoire. p1373 15 June 1990.
- Goodwin, Raymond G. See Smith, Craig A.
- Gordon, Daniel M. See Herrington, Deirdre.
- Gorka, Carolyn. See Ottinger, Marjorie A.
- Goudsmit, Jaap. See Buck, Henk M.
- Gown, Allen M. See Ross, Russell.
- Green, Glen M. and Sussman, Robert W.: Deforestation history of the eastern rain forests of Madagascar from satellite images. p212 13 Apr 1990.
- Green, Michael D.: Health care and the law (letter). p1280 15 June 1990.
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- Grogan, William R.: Engineering school needs (letter). p17 6 Apr 1990.
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- Guilhot, Stéphane. See Moriyama, Takashi.
- Guinasso, Norman L., Jr. See MacDonald, I. Rosman.
- Gundersen, Robert E. and Devreotes, Peter N.: In vivo receptor-mediated phosphorylation of a G protein in *Dictyostelium*. p591 4 May 1990.
- Gunter, Kurt C. See Wright, John J.
- Gunteroth, Warren G.: Health care rationing (letter). p662 11 May 1990.
- Gust, Devens; Moore, Thomas A.; Moore, Ana L.; Lee, Seung-Joo; Bittersmann, Edith; Lutrull, David K.; Rehms, Aden A.; DeGraziano, Janice M.; Ma, Xiaochun C.; Gao, Feng; Belford, Robert E.; Trier, Todd T.: Efficient multistep photoinitiated electron transfer in a molecular pentad. p199 13 Apr 1990.
- Guyot, Francois. See Wang, Yanbin.
- ## H
- Haan, J. See Van Broeckhoven, C.
- Hacking, Ian: review of *Shaping Written Knowledge*, by Charles Bazerman. p877 18 May 1990.
- Hadfield, M. G. See Miller, S. E.
- Hadley, Robert W. See Lederer, W. Jonathan.
- Hafler, David A. See Wucherpfennig, Kai W.
- Haggerty, Stephen E. and Sautter, Violaine: Ultradeep (greater than 300 kilometers), ultramafic upper mantle xenoliths. p993 25 May 1990.
- Hal'ar, Karl W.; Klis, Wieslaw A.; Stewart, John M.: Design and synthesis of a peptide having chymotrypsin-like esterase activity. p1544 22 June 1990.
- Hajjar, David P. See Kaner, Robert J.
- Hall, Edwin S.: review of *A Victorian Earl in the Arctic*, by Shepard Krech III. p907 18 May 1990.
- Hamilton, David P. (news): Census adjustment battle heats up. p807 18 May 1990. Information decontrol urged. p957 25 May 1990. A question of "fitness". p1598 29 June 1990. Will glasnost wash over U.S. export controls? p21 6 Apr 1990.
- Hamilton, R. M. and Mooney, W. D.: Seismic-wave attenuation associated with crustal faults in the New Madrid seismic zone. p351 20 Apr 1990.
- Hamilton, Warren B.: review of *The Geology of North America*, edited by Albert W. Bally and Allison R. Palmer. p615 4 May 1990.
- Han, Z. L. See Wang, X. D.
- Hanafusa, Hidesaburo. See Matsuda, Michiyuki.
- Handa, Balraj K. See Roberts, Noel A.
- Hannibal, Kari: Report on South Africa (AAAS). p86 6 Apr 1990.
- Hanson, R. Brooks: Planetary fluids (editorial). p281 20 Apr 1990.
- Hardy, J. A. See Van Broeckhoven, C.
- Hardy, S. J. S. See Randall, L. L.
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- Harrington, John S. See Nicholson, William J.
- Harpold, Michael M. See Jay, Scott D.
- Harris, John G.; Koch, Christof; Luo, Jin: A two-dimensional analog VLSI circuit for detecting discontinuities in early vision. p1209 8 June 1990.
- Harrison, Lionel G.: review of *Pattern Formation, Ciliate Studies and Models*, by Joseph Frankel. p562 22 June 1990.
- Hayflick, Leonard: Unscrambling an egg (letter). p1281 15 June 1990.
- Hecht, Sidney M. See Dange, V.
- Heck, Ramona K. Z.: review of *As We Forgive Our Debtors*, by Teresa A. Sullivan, Elizabeth Warren, and Jay Lawrence Westbrook. p501 27 Apr 1990.
- Heffron, Fred. See Buchmeier, Nancy A.
- Heitmann, John A.: review of *Pure Food*, by James Harvey Young. p896 18 May 1990.
- Henley, Ernest M.: review of *Weak Interactions in Nuclei*, by Barry R. Holstein. p90 6 Apr 1990.
- Herendeen, Daniel R.; Williams, Kelly P.; Kassarvitis, George A.; Geiduschek, E. Peter: An RNA polymerase-binding protein that is required for communication between an enhancer and a promoter. p573 4 May 1990.
- Hermoso, José M. See Serrano, Manuel.
- Herrington, Deirdre; Hoffman, Stephen L.; Levine, Myron M.; Gordon, Daniel M.: Malaria vaccines (letter). p422 27 Apr 1990.
- Hester, Lynda D. See Ronnett, Gabriele V.
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- Hightstein, Steven M. See Moschovakis, Adonis K.
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- Hildebrand, Alan R. and Boynton, William V.: Proximal Cretaceous-Tertiary boundary impact deposits in the Caribbean. p843 18 May 1990.
- Hildreth, James E. K. See Orentas, Rimas J.
- Hill, Timothy D.; Dean, Nicholas M.; Mordan, Lawrence J.; Lau, Alan F.; Kanemitsu, Martha Y.; Boynton, Alton L.: PDGF-induced activation of phospholipase C is not required for induction of DNA synthesis. p1660 29 June 1990.
- Hinc, Alice A. See Ostro, Steven J.
- Hipskind, Robert A. See Deuschle, Ulrich.
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- Hoffman, Michelle (news): "Superantigens" may shed light on immune puzzle. p685 11 May 1990.
- Hoffman, Stephen L. See Herrington, Deirdre.
- Hoffmann, F. Michael. See Gertler, Frank B.
- Hofmann, D. J.: Increase in the stratospheric background sulfuric acid aerosol mass in the past 10 years. p996 25 May 1990.
- Holden, Constance (news): Breast cancer therapies weighed. p1602 29 June 1990. Gordon & Breach impanels a journal jury. p298 20 Apr 1990. Irrationality—skeptics strike back. p165 13 Apr 1990. The new workhorses in U.S. labs? p1069 1 June 1990. No American dream for Soviet emigrés. p1068 1 June 1990. Soviet emigrés swamp Israeli science. p1070 1 June 1990. (letter): Research support for Head Start. p1176 8 June 1990.
- Holloway, David: review of *Soviet Science on the Edge of Reform*, by Harley D. Balzer. p750 11 May 1990.
- Holloway, Marguerite (news): No pain, no gain? p1313 15 June 1990.
- Hollowell, James P. See Rich, Keith M.
- Holmes, Edward W. See Ch'ng, J. Lai C.
- Holmes, Richard T.: review of *American Warblers*, by Douglas H. Morse. p901 18 May 1990.
- Horgan, John: Quasicrystal publications (letter). p444 25 May 1990.
- Hosken, Nancy A. and Bevan, Michael J.: Defective presentation of endogenous antigen by a cell line expressing class I molecules. p367 20 Apr 1990.
- Hostikka, Sirkka Liisa. See Barker, David F.
- Hotta, Yoshiki. See Yamada, Takuma.
- Houde, Anne E. and Endler, John A.: Correlated evolution of female mating preferences and male color patterns in the guppy *Poecilia reticulata*. p1405 15 June 1990.
- Howley, Peter M. See Werness, Bruce A.
- Hubbard, Arthur T. See Frank, Douglas G.
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- Hufbauer, Karl: review of *A Fragile Power*, by Chandra Mukerji. p872 18 May 1990.
- Hume, Joseph R. See Leblanc, Normand.
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- ## I and J
- Iida, Toshihiko. See Stojilković, Stanko S.
- Ingersoll, Andrew P.: Atmospheric dynamics of the outer planets. p308 20 Apr 1990.
- Irving, Steven G. See Wright, John J.
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- Jäckle, Herbert. See Weigel, Detlef.
- Jackson, Jeremy B. C. and Cheetham, Alan H.: Evolutionary significance of morphospecies: a test with cheilostome Bryozoa. p579 4 May 1990.
- Jacquet, Michel. See Créchet, Jean-Bernard.
- Janes, Susan M.; Mu, David; Wemmer, David; Smith, Alan J.; Kaur, Surinder; Maltby, David; Burlingame, Alma L.; Klinman, Judith P.: A new redox cofactor in eukaryotic enzymes: 6-hydroxydopa at the active site of bovine serum amine oxidase. p81 25 May 1990.
- Jasanoff, Sheila: review of *The Environmental Protection Agency*, by Marc K. Landy, Marc J. Roberts, and Stephen R. Thomas. p895 18 May 1990.
- Jay, Scott D.; Ellis, Steven B.; McCue, Ann F.; Williams, Mark E.; Vedvick, Thomas S.; Harpold, Michael M.; Campbell, Kevin P.: Primary structure of the  $\gamma$  subunit of the DHP-sensitive calcium channel from skeletal muscle. p490 27 Apr 1990.
- Jeanloz, Raymond. See Godwal, B. K.
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- Jezl, Barbara Ann: Macintosh laboratory automation: three software packages. p92 6 Apr 1990.
- Johansen, Chris. See Ae, Noriharu.
- Johnson, Edward M. See Nicholson, William J.
- Johnson, Kathleen E. See Wood, Bernard J.
- Johnson, Steven A.; McNeill, Thomas; Cordell, Barbara; Finch, Caleb E.: Relation of neuronal APP-751/APP-695 mRNA ratio and neuritic plaque density in Alzheimer's disease. p854 18 May 1990.
- Josephson, Paul R.: review of *Science Between the Superpowers*, by Yakov M. Rabkin, and *Techno-Diplomacy*, by Glenn E. Schweitzer. p389 20 Apr 1990.
- Judge, Anne V. See McNutt, Marcia K.
- Jürgens, Gerd. See Weigel, Detlef.
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- K**
- Kaas, Jon K.; Krubitzer, Leah A.; Chino, Yuzo M.; Langston, Andy L.; Polley, Edward H.; Blair, Norman: Reorganization of retinotopic cortical maps in adult mammals after lesions of the retina. p229 13 Apr 1990.
- Kaiho, K. See Gill, J.
- Kaiser, Peter K. See Dreyer, Evan B.
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- Kamb, Barclay. See Engelhardt, Hermann.
- Kanagawa, Osami. See Moriyama, Takashi.
- Kanemitsu, Martha Y. See Hill, Timothy D.
- Kaner, Robert J.; Baird, Andrew; Mansukhani, Alka; Basilico, Claudio; Summers, Barbara D.; Florkiewicz, Robert Z.; Hajjar, David P.: Fibroblast growth factor receptor is a portal of cellular entry for herpes simplex virus type 1. p1410 15 June 1990.
- Kao, C. Cheng; Lieberman, Paul M.; Schmidt, Martin C.; Zhou, Qiang; Pei, Rui; Berk, Arnold J.: Cloning of a transcriptionally active human TATA binding factor. p1646 29 June 1990.
- Kappler, John. See Blackman, Marcia. See also Koller, Beverly H. See also Marrack, Philippa.
- Karpen, Jeffrey W. See Makino, Clint L.
- Kashlev, Mikhail; Lee, Jookyoung; Zalenskaya, Katya; Nikiforov, Vadim; Goldfarb, Alex: Blocking of the initiation-to-elongation transition by a transdominant RNA polymerase mutation. p1006 25 May 1990.
- Kassavetis, George A. See Herendeen, Daniel R.
- Katsuda, Shogo. See Ross, Russell.
- Kaula, William M.: Global warming questions (letter). p1281 15 June 1990.
- Kaur, Surinder. See Janes, Susan M.
- Kay, John. See Roberts, Noel A.
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- Kelley, Kathleen. See Wright, John J.
- Kepler, Thomas B.; Marder, Eve; Abbott, L. F.: The effect of electrical coupling on the frequency of model neuronal oscillators. p83 6 Apr 1990.
- Kerr, Richard A. (news): Coral pushes back the past. p1314 15 June 1990. Dinosaurs' death blow in the Caribbean Sea? p815 18 May 1990. From one coral many findings blossom. p1310 15 June 1990. A generational rift in geophysics. p300 20 Apr 1990. Glasnost, greenhouses, and ice ages. p1607 29 June 1990. The ice age bones of contention. p32 6 Apr 1990. Marking the ice ages in coral instead of mud. p31 6 Apr 1990. NOAA revived for the green decade. p1177 8 June 1990. Not so irreconcilable differences? p301 20 Apr 1990. Quake prediction by seismic oxydora? p1490 22 June 1990. Sunspot-weather link is down but not out. p684 11 May 1990. Who will win the El Niño sweepstakes this time? p445 27 Apr 1990.
- Kestler, Harry; Kodama, Toshiaki; Ringler, Douglas; Marthas, Marta; Pedersen, Niels; Lackner, Andrew; Regier, Dean; Sehgal, Prabhakar; Daniel, Muthiah; King, Norval; Desrosiers, Ronald: Induction of AIDS in rhesus monkeys by molecularly cloned simian immunodeficiency virus. p1109 1 June 1990.
- Khan, Tariq A. See Moore, Kevin W.
- Khorana, H. Gobind. See Altenbach, Christian.
- Kiernan, Vincent (news): An engineering challenge. p1483 22 June 1990. Reactor project hitches onto moon-Mars effort. p1482 22 June 1990.
- Kim, E.-S. See Sakai, H.
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- Kimchington, Derek. See Roberts, Noel A.
- King, Norval. See Kestler, Harry.
- Kipreos, Edward T. and Wang, Jean Y. J.: Differential phosphorylation of c-Abl in cell cycle determined by *cdc2* kinase and phosphatase activity. p217 13 Apr 1990.
- Kirk, Kevin L. See Buben, James K.
- Kisby, Glen F. See Spencer, Peter S.
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- Kobayashi, Hisao. See Yamada, Takuma.
- Koch, Christoff. See Harris, John G.
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- Kohn, Philip. See Singer, J. R.
- Kokis, J. E. See Brooks, A. S.
- Koller, Beverly H.; Marrack, Philippa; Kappler, John W.; Smithies, Oliver: Normal development of mice deficient in  $\beta_2$ M, MHC class I proteins, and CD8<sup>+</sup> T cells. p1227 8 June 1990.
- Komori, Naoka. See Yamada, Takuma.
- Koo, E. H. See Sisodia, S. S.
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- Koshland, Daniel E., Jr. (editorials): The funding crisis. p1593 29 June 1990. The new Puritanism. p1057 1 June 1990. Recognizing self from nonself. p1273 15 June 1990. Society cure itself. p9 6 Apr 1990. The underside of overhead. p645 11 May 1990.
- Koury, Mark J. and Bondurant, Maurice C.: Erythropoietin retards DNA breakdown and prevents programmed death in erythroid progenitor cells. p378 20 Apr 1990.
- Kovacs, Gregory T. A.: Neural interfacing (letter). p1280 15 June 1990.
- Kovats, Susan; Main, Elliot K.; Librach, Clifford; Stubblebine, Marcia; Fisher, Susan J.; DeMars, Robert: A class I antigen, HLA-G, expressed in human trophoblasts. p220 13 Apr 1990.
- Koyama, M. See Gill, J.
- Kralik, Martin. See Eberl, Dennis D.
- Krauss, John C. See Wilson, James M.
- Kremer, S. See Margolis, B.
- Krishtalka, Leonard: review of *The Evolution of Perissodactyls*, edited by Donald R. Prothero and Robert B. Schoch. p899 18 May 1990.
- Kröhn, Antonin. See Roberts, Noel A.
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- Kubik, Peter W. See Phillips, Fred M.
- Kuliopulos, Harriet (news): Amazonian biodiversity. p1305 15 June 1990.
- Kumar, Ramesh; Sukumar, Saraswati; Barbacid, Mariano: Activation of *ras* oncogenes preceding the onset of neoplasia. p1101 1 June 1990.
- Kusakabe, M. See Gill, J.
- Kustu, Sydney. See Wedel, Andrew.
- Kvenvolden, Keith A.: Racemization dating (letter). p540 4 May 1990.
- L**
- Labruyere, Joann. See Olney, John W.
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- Lada, Charles J. and Shu, Frank H.: The formation of sunlike stars. p564 4 May 1990.
- Lam, Eric and Chua, Nam-Hai: GT-1 binding site confers light responsive expression in transgenic tobacco. p471 27 Apr 1990.
- Lambert, Robert W. See Roberts, Noel A.
- Landman, Uzi; Luedtke, W. D.; Burnham, Nancy A.; Colton, Richard J.: Atomic mechanisms and dynamics of adhesion, nanoindentation, and fracture. p454 27 Apr 1990.
- Landrigan, Philip J. See Nicholson, William J.
- Langer, Robert. See Moses, Marsha A.
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- Lapierre, H. See Gill, J.
- LaRoche, William J.; Giese, Neill; May-Siroff, Mary; Robins, Keith C.; Aaronson, Stuart A.: Molecular localization of the transforming and secretory properties of PDGF A and PDGF B. p1541 22 June 1990.
- Lau, Alan F. See Hill, Timothy D.
- LaVail, Matthew M. See Uehara, Fumiyuki.
- Leblanc, Normand and Hume, Joseph R.: Sodium current-induced release of calcium from cardiac sarcoplasmic reticulum. p372 20 Apr 1990.
- Lederer, W. Jonathan; Niggli, Ernst; Hadley, Robert W.: Sodium-calcium exchange in excitable cells: fuzzy space. p283 20 Apr 1990.
- Lee, Jookyoung. See Kashlev, Mikhail.
- Lee, Sang Yeol. See Choi, Kwan Yong.
- Lee, Seung-Joo. See Gust, Devens.
- Leikowitz, Robert J. See Lohse, Martin J.
- Lenert, Peter; Kroon, Daniel; Spiegelberg, Hans; Golub, Edward S.; Zanetti, Maurizio: Human CD4 binds immunoglobulins. p1639 29 June 1990.
- Lenski, Richard E.: review of *Sex and Death in Protozoa*, by Graham Bell. p901 18 May 1990.
- Lerner, Richard A.: See Stanfield, Robyn L.
- Leslie, Stuart W.: review of *Universities and the Military*, edited by David A. Wilson. p870 18 May 1990.
- Leto, Thomas L.; Lomax, Karen J.; Volpp, Bryan D.; Nunoi, Hiroyuki; Sechler, Joan M. G.; Nauseef, William M.; Clark, Robert A.; Gallin, John I.; Malach, Harry L.: Cloning of a 67-kD neutrophil oxidase factor with similarity to a

- noncatalytic region of p60<sup>c-src</sup>. p727 11 May 1990.
- Letourneau, Deborah K.: Code of ant-plant mutualism broken by parasite. p215 13 Apr 1990.
- Levine, Arnold J. See Werness, Bruce A.
- Levine, Myron M. See Herrington, Deirdre.
- Levitzki, Alexander: GTP-GDP exchange proteins. p794 18 May 1990.
- Levy, Avraham A. and Walbot, Virginia: Biometric total synthesis of *proto-daphniophylline*. p1532 22 June 1990.
- Levy, Efrat; Carman, Mark D.; Fernandez-Madrid, Ivan J.; Power, Michael D.; Lieberburg, Ivan; van Duinen, Sjoerd G.; Bots, Gerard Th. A. M.; Luyendijk, Willem; Frangione, Blas: Mutation of the Alzheimer's disease amyloid gene in hereditary cerebral hemorrhage, Dutch type. p1124 1 June 1990.
- Librach, Clifford. See Kovats, Susan.
- Lieber, Charles M. See Wu, Xian Liang.
- Lieberburg, Ivan. See Levy, Efrat.
- Lieberman, Paul M. See Kao, C. Cheng.
- Liebermann, Robert C. See Wang, Yanbin.
- Likert, Karen M. See Girard, Thomas J.
- Lin, Bohai. See Mangel, Walter F.
- Lin, Chia-Sheng; Nicoletis, Miguel A. L.; Schneider, Jay S.; Chapin, John K.: A major direct GABAergic pathway from zona incerta to neocortex. p1553 22 June 1990.
- Lindquist, Susan L. See Sanchez, Yolanda.
- Lingappa, Vishwanath R. See Lopez, Charles D.
- Lipton, Stuart A. See Dreyer, Evan B.
- Lisensky, George C.; Penn, Rona L.; Murphy, Catherine J.; Ellis, Arthur B.: Electro-optical evidence for the chelate effect at semiconductor surfaces. p840 18 May 1990.
- Liu, Amy Y. See Godwal, B. K.
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- Lo, David. See Burkly, Linda C.
- Lohse, Martin J.; Benovic, Jeffrey L.; Codina, Juan; Caron, Marc G.; Lefkowitz, Robert J.:  $\beta$ -Arrestin: a protein that regulates  $\beta$ -adrenergic receptor function. p1547 22 June 1990.
- Lomax, Karen J. See Leto, Thomas L.
- Loo, Joseph A.; Edmonds, Charles G.; Smith, Richard D.: Primary sequence information from intact proteins by electrospray ionization tandem mass spectrometry. p201 13 Apr 1990.
- Lopez, Charles D.; Yost, C. Spencer; Prusiner, Stanley B.; Myers, Richard M.; Lingappa, Vishwanath R.: Unusual topogenic sequence directs prion protein biogenesis. p226 13 Apr 1990.
- Lopez, M. Theresa. See Sinha, Animesh A.
- Lovell, M. See Gill, J.
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- M**
- Ma, Shao-Mu. See Chiou, Jang-Shing.
- Ma, Xiaochun C. See Gust, Devens.
- Macara, Ian G. See Wolfman, Alan.
- MacDonald, I. Rosman; Reilly, James F., II; Guinasso, Norman L., Jr.; Brooks, James M.; Carney, Robert S.; Bryant, William A.; Bright, Thomas J.: Chemosynthetic mussels at a brine-filled pockmark in the northern Gulf of Mexico. p1096 1 June 1990.
- Mace, Georgina M.: review of *Conservation Biology and the Black-Footed Ferret*, edited by Ulysses S. Seal, E. Tom Thorne, Michael A. Bogan, and Stanley H. Anderson. p88 6 Apr 1990.
- Machin, Peter J. See Roberts, Noel A.
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- Makino, Clint L.; Karpen, Jeffrey W.; Meister, Markus: Postdoc tuition at Stanford (letter). p1176 8 June 1990.
- Malden, L. Trevor. See Ross, Russell.
- Malech, Harry L. See Leto, Thomas L.
- Maltby, David. See Jones, Susan M.
- Mangel, Walter F.; Lin, Bohai; Ramakrishnan, V.: Characterization of an extremely large, ligand-induced conformational change in plasminogen. p69 6 Apr 1990.
- Mann, Jeff R. See Oberdick, John.
- Mansukhani, Alka. See Kaner, Robert J.
- Marcus, George E.: review of *Primate Visions*, by Donna Haraway. p886 18 May 1990.
- Marder, Eve. See Kepler, Thomas B.
- Margolis, B.; Zilberstein, A.; Franks, C.; Felder, S.; Kremer, S.; Ullrich, A.; Rhee, S. G.; Skorecki, K.; Schlessinger, J.: Effect of phospholipase C- $\gamma$  overexpression on PDGF-induced second messengers and mitogenesis. p607 4 May 1990.
- Marrack, Philippa. See Blackman, Marcia. See also Koller, Beverly H.
- and Kappler, John: The staphylococcal enterotoxins and their relatives. p705 11 May 1990.
- Marsaglia, K. See Gill, J.
- Marsh, James G. See Zwally, H. Jay.
- Marshall, Eliot (news): Agencies, journals set some rules. p954 25 May 1990. A clash over standards for scientific records. p544 4 May 1990. Data sharing: a declining ethic? p952 25 May 1990. The Florida case: appearances matter. p153 13 Apr 1990. Geneva on the Beltway. p955 25 May 1990. Harvard's tough new rules. p154 13 Apr 1990. Mountain sheep experts draw hunters' fire. p437 27 Apr 1990. NASA grilled on space station "flaw." p26 6 Apr 1990. NSF education chief lost in the shuffle. p1183 8 June 1990. Peer review under review. p1307 15 June 1990. Should science journals play cop? p155 13 Apr 1990. When commerce and academe collide. p152 13 Apr 1990. (letter): Full disclosure at the University of Florida. p1280 15 June 1990. Scientific records and regulations. p1471 22 June 1990.
- Marthas, Marta. See Kestler, Harry.
- Marti, Thomas. See Altenbach, Christian.
- Martin, Joseph A. See Roberts, Noel A.
- Marx, Jean (news): Holding the line against heart disease. p1491 22 June 1990. Kaposi's sarcoma puzzle begins to yield. p442 27 Apr 1990. New genes for ailing hearts? p1492 22 June 1990.
- Masuda, Junichi. See Ross, Russell.
- Masuko, Hideyuki. See Ross, Russell.
- Matsuda, Michiyuki; Mayer, Bruce J.; Fukui, Yasuhisa; Hanafusa, Hidesaburo: Binding of transforming protein, p47<sup>src-crk</sup>, to a broad range of phosphotyrosine-containing proteins. p1536 22 June 1990.
- Matsumoto, Hiroyuki. See Yamada, Takuma.
- Matthes, Michael T. See Uehara, Fumiyo.
- May-Siroff, Mary. See LaRochelle, William J.
- Mayer, Bruce J. See Matsuda, Michiyuki.
- Mayo-Bond, Laura. See Wilson, James M.
- McCauley, Clark: Light bending: prediction and theory (letter). p423 27 Apr 1990.
- McClure, Donald. See Esch, Fred S.
- McCrack, Thomas K.: review of *Managing Industrial Enterprise*, edited by William D. Wray. p889 18 May 1990.
- McCue, Ann F. See Jay, Scott D.
- McDevitt, Hugh O. See Sinha, Animesh A.
- McFadden, P. L. See Merrill, R. T.
- McKinney, Frank K.; Broadhead, Thomas W.; Gibson, Michael A.: Coral-bryozoan mutualism: structural innovation and greater resource exploitation. p466 27 Apr 1990.
- McMillan, R. Bruce. See Saunders, Jeffrey J.
- McNeill, Thomas. See Johnson, Steven A.
- McNutt, Marcia K. and Judge, Anne V.: The superswell and mantle dynamics beneath the South Pacific. p969 25 May 1990.
- Meade, Charles. See Godwal, B. K.
- Meikins, Peter: review of *Technical Workers in an Advanced Society*, by Stephen Crawford. p1025 25 May 1990.
- Meister, Markus. See Makino, Clint L.
- Melius, James. See Nicholson, William J.
- Merelli, Francesco. See Stojilković, Stanko S.
- Merrett, John H. See Roberts, Noel A.
- Merrill, R. T. and McFadden, P. L.: Paleomagnetism and the nature of the geodynamo. p345 20 Apr 1990.
- Meylan, Anne B.; Bowen, Brian W.; Avise, John C.: A genetic test of the natal homing versus social facilitation models for green turtle migration. p724 11 May 1990.
- Michener, Gail R.: review of *Marmots*, by David P. Barash. p1025 25 May 1990.
- Miezin, Francis M. See Corbetta, Maurizio.
- Milechik, Joseph P. See Girard, Thomas J.
- Miller, G. H. See Brooks, A. S.
- Miller, Laury. See Douglas, Bruce C.
- Miller, S. E. and Hadfield, M. G.: Development arrest during larval life and life-span extension in a marine mollusc. p356 20 Apr 1990.
- Mills, John S. See Roberts, Noel A.
- Mincy, Ronald B.; Sawhill, Isabel V.; Wolf, Douglas A.: The underclass: definition and measurement. p450 27 Apr 1990. (letter): "Underclass": problems with the term. p1473 22 June 1990.
- Mistou, Michel-Yves. See Créchet, Jean-Bernard.
- Mitsuya, Hiroaki. See Wright, John J.
- Mizzzen, Lee A. See Beckmann, Richard P.
- Moffatt, Anne Simon (news): Animal cells transformed in vivo. p1493 22 June 1990. China: a living lab for epidemiology. p553 4 May 1990. Cornell got out in front. p1480 22 June 1990.
- Montgomery, William: review of *The Politics of Evolution*, by Adrian Desmond. p883 18 May 1990.
- Mooi, Ruth. See O'Grady, Richard T.
- Moon, Kyung Ho. See Choi, Kwang Yong.
- Mooney, W. D. See Hamilton, R. M.
- Moore, Ana L. See Gust, Devens.
- Moore, Jim: Competition exclusion principle (let-



ter). p665 11 May 1990.

Moore, Kevin W.; Vieira, Paulo; Fiorentino, David F.; Trounstein, Mary L.; Khan, Tariq A.; Mosmann, Timothy R.: Homology of cytochrome synthesis inhibitory factor (IL-10) to the Epstein-Barr virus gene BCRF1. p1230 8 June 1990.

Moore, Thomas A. See Gust, Devens.

Moore, Thomas E.: review of *The Earth's Ionosphere*, by Michael C. Kelley, with contributions from Rodney A. Heelis. p89 6 Apr 1990.

Mordan, Lawrence J. See Hill, Timothy D.

Morell, Virginia (news): The big picture. p440 27 Apr 1990. Confusion in earliest America. p439 27 Apr 1990.

Morgan, James I. See Oberdick, John.

Morgan, T. H. See Potter, A. E.

Moriyama, Takashi; Guilhot, Stephane; Klopchin, Kathleen; Moss, Bernard; Pinkert, Carl A.; Palmiter, Richard D.; Brinster, Ralph L.; Kanagawa, Osami; Chisari, Francis V.: Immunobiology and pathogenesis of hepatocellular injury in hepatitis B virus transgenic mice. p361 20 Apr 1990.

Morrissey, Philip J. See Fanslow, William C.

Moschovakis, Adonis K.; Scudder, Charles A.; Highstein, Steven M.: A structural basis for Hering's law: projections to extraocular motoneurons. p1118 1 June 1990.

Moses, Marsha A.; Sudhalter, Judith; Langer, Robert: Identification of an inhibitor of neovascularization from cartilage. p1408 15 June 1990.

Mosmann, Timothy R. See Moore, Kevin W.

Moss, Bernard. See Moriyama, Takashi.

Mossman, B. T.; Bignon, J.; Corn, M.; Seaton, A.; Gee, J. B. L.: Asbestos, carcinogenicity, and public policy (letter). p799 18 May 1990.

Mostov, Keith E. See Casanova, James E.

Mu, David. See Jones, Susan M.

Muhleman, Duane O.; Grossman, Arie W.; Butler, Bryan J.; Slade, Martin A.: Radar reflectivity of Titan. p975 25 May 1990.

Murphy, Catherine J. See Lisensky, George C.

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## N and O

Nakatsuka, Masashi. See Rosen, Michael K.

Nathan, Carl F. See Ding, Aihao H.

Nauseef, William M. See Leto, Thomas L.

Nelbock, Peter; Dillon, Patrick J.; Perkins, Ann; Rosen, Craig A.: A cDNA for a protein that interacts with the human immunodeficiency virus Tat transactivator. p1650 29 June 1990.

Nelson, Katherine: review of *Vision and the Emergence of Meaning*, by Anne Dunlea. p1669 29 June 1990.

Nicholson, Ralph L. See Snyder, Beth A.

Nicholson, William J.; Johnson, Edward M.; Harington, John S.; Melius, James; Landrigan, Philip J.: Asbestos, carcinogenicity, and public policy (letter). p795 18 May 1990.

Nicolescu, Miguel A. L. See Lin, Chia-Sheng.

Nicoll, Roger A. See Zalutsky, Robert A.

Niggli, Ernst. See Lederer, W. Jonathan.

Nikiforov, Vadim. See Kashlev, Mikhail.

Norman, Colin (news): Bromley promises small science focus. p297 20 Apr 1990. How the United States stacks up in key technologies. p299 20 Apr 1990. North Carolina protests Chinese pig cartel. p1304 15 June 1990.

Novotny, William F. See Girard, Thomas J.

Noyori, Ryoji: Chiral metal complexes as discriminating molecular catalysts. p1194 8 June 1990.

Nunoi, Hiroyuki. See Leto, Thomas L.

Nye, Jeffrey S. See Ronnett, Gabriele V.

Oakley, Martha G. and Dervan, Peter B.: Structural motif of the GCN4 DNA binding domain characterized by affinity cleaving. p847 18 May 1990.

Obah, Eugene. See Orentas, Rimas J.

Oberdick, John; Smeyne, Richard J.; Mann, Jeff R.; Zackson, Saul; Morgan, James I.: A promoter that drives transgene expression in cerebellar Purkinje and retinal bipolar neurons. p223 13 Apr 1990.

Oettinger, Marjorie A.; Schatz, David G.; Gorka, Carolyn; Baltimore, David: RAG-1 and RAG-2, adjacent genes that synergistically activate V(D)J recombination. p1517 22 June 1990.

Offermann, Jeffrey T. See Dreyer, Evan B.

O'Grady, Richard T. and Mooi, Ruth: Support for systematics (letter). p1594 29 June 1990.

Okada, Kensuke. See Ae, Noriharu.

Olesko, Kathryn M.: review of *Teaching the History of Science*, edited by Michael Shortland and Andrew Warwick. p1242 8 June 1990.

Oliphant, Arnold R. See Barker, David F.

Olney, John W.; Zorumski, Charles; Price, Madelon T.; Labruyere, Joann: L-Cysteine, a bicarbonate-sensitive endogenous excitotoxin. p596 4 May 1990.

Oltersdorf, Tilman. See Esch, Fred S.

Oomori, T. See Sakai, H.

Orentas, Rimas J.; Hildreth, James E. K.; Obah, Eugene; Polydefkis, Michael; Smith, Gale E.; Clements, Mary Lou; Siliciano, Robert F.: Induction of CD4<sup>+</sup> human cytolytic T cells specific for HIV-infected cells by a gp160 subunit vaccine. p1234 8 June 1990.

Orringer, Eugene P. See Parker, John C.

Ostro, Steven J.; Chandler, John F.; Hine, Alice A.; Rosema, Keith D.; Shapiro, Irwin I.; Yeomans, Donald K.: Radar images of asteroid 1989 PB. p1523 22 June 1990.

Ota, Kohei. See Wucherpfennig, Kai W.

## P

Pak, Michael. See Wei, Aguan.

Palca, Joseph (news): AIDS and the future. p1484 22 June 1990. The Damasios' research web. p813 18 May 1990. Eastern Europe: missing an opportunity. p20 6 Apr 1990. Exchange controls. p22 6 Apr 1990. Getting together bit by bit. p160 13 Apr 1990. Grants squeeze stirs up lobbyists. p803 18 May 1990. How more can mean less. p543 4 May 1990. Import rules threaten research on primates. p1071 1 June 1990. Insights from broken brains. p812 18 May 1990. NSF: hard times amid plenty. p541 4 May 1990. A reliable animal model for AIDS. p1078 1 June 1990. Scientific misconduct cases revealed. p297 20 Apr 1990. Women left out at NIH. p1601 29 June 1990.

Palmer, Thomas Y.: Grand Canyon haze (letter). p146 13 Apr 1990.

Palmiter, Richard D. See Moriyama, Takashi.

Park, M. A.; Gibson, K. A.; Quinones, L.; Schweikert, E. A.: Coincidence counting in time-of-flight mass spectrometry: a test for chemical microhomogeneity. p988 25 May 1990.

Parker, John C. and Orringer, Eugene P.: review of *Sickle Cell Disease*, edited by Charles F. Whitten and John F. Bertles. p502 27 Apr 1990.

Parkes, Kevin E. B. See Roberts, Noel A.

Parmeggiani, Andrea. See Créchet, Jean-Bernard.

Parry William J.: review of *Time, Energy and Stone Tools*, edited by Robin Torrence. p1140 1 June 1990.

Patarroyo, Manuel Elkin: Malaria vaccines (let-

ter). p422 27 Apr 1990.

Peacock, Simon M.: Fluid processes in subduction zones. p329 20 Apr 1990.

Pearse, Roger. See Qiu, Wei Qiao.

Pedersen, Niels. See Kestler, Harry.

Pedlosky, Joseph: The dynamics of the oceanic subtropical gyres. p316 20 Apr 1990.

Pei, Rui. See Kao, C. Cheng.

Penn, Rona L. See Lisensky, George C.

Penner, Thomas L. See Bedzyk, Michael J.

Perkins, Ann. See Nelbock, Peter.

Pestre, Ddominique: review of *Lawrence and His Laboratory*, edited by John L. Heilbron and Robert W. Siedel. p874 18 May 1990.

Peterman, Zell E. See Eberl, Dennis D.

Peters, Pauline: review of *Land Filled with Flies*, by Edwin N. Wilmsen. p905 18 May 1990.

Petersen, Steven E. See Corbetta, Maurizio.

Peterson, Michael Gregory; Tanese, Naoko; Pugh, B. Franklin; Tjian, Robert: Functional domains and upstream activation properties of cloned human TATA binding protein. p1625 29 June 1990.

Petroski, Henry: review of *Inventing for Fun and Profit*, by Jacob Rabinow. p892 18 May 1990.

Pezard, P. See Gill, J.

Pfeffer, Suzanne R. See Draper, Rockford K.

Phillips, Fred M.; Zreda, Marek G.; Smith, Stewart S.; Elmore, David; Kubik, Peter W.; Sharma, Pankaj: Cosmogenic chlorine-36 chronology for glacial deposits at Bloody Canyon, eastern Sierra Nevada. p1529 22 June 1990.

Phinney, Stephen D.: British radiation study (letter). p1595 29 June 1990.

Pierce, Jacalyn H. See Di Fiore, Pier Paolo.

Pincus, P. See Safran, S. A.

Ping, April Joy. See Wilson, James M.

Pinkert, Carl A. See Moriyama, Takashi.

Pitts, John L.: Fish, money, and science in Puget Sound (letter). p290 20 Apr 1990.

Plomin, Robert: The role of inheritance in behavior. p183 13 Apr 1990.

Poinar, George O., Jr. and Singer, Rolf: Upper Eocene gilled mushroom from the Dominican Republic. p1099 1 June 1990.

Poirier, Jean-Paul: review of *Rheology of Solids and of the Earth*, edited by Shunichiro Karato and Mitsuhiro Toriumi. p1430 15 June 1990.

Polley, Edward H. See Kaas, Jon K.

Polydefkis, Michael. See Orentas, Rimas J.

Pool, Robert (news): Circuit boards: heal yourselves. p1606 29 June 1990. Closing the gap between proteins and DNA. p1609 29 June 1990. Clusters of clusters: double strange. p1187 8 June 1990. Clusters: strange morsels of matter. p1186 8 June 1990. Freshman chemistry was never like this. p157 13 Apr 1990. "Hairy enzymes" stay in the blood. p305 20 Apr 1990. Laser cooling hits new low. p1077 1 June 1990. A lost generation? p435 27 Apr 1990. Making atoms jump through hoops. p1076 1 June 1990. Making light work of cell surgery. p29 6 Apr 1990. A prism for electrons. p1606 29 June 1990. Struggling to do science for society. p672 11 May 1990. Teaching science appreciation. p158 13 Apr 1990. Who will do science in the 1990s? p433 27 Apr 1990. Wolf: my tritium was an impurity. p1301 15 June 1990. (letter): Water temperatures. p424 27 Apr 1990.

Popham, David. See Wedel, Andrew.

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Potter, A. E. and Morgan, T. H.: Evidence for magnetospheric effects on the sodium atmosphere of Mercury. p835 18 May 1990.

Pouillet, Patrick. See Créchet, Jean-Bernard.

Powell, C. J. See Egelhoff, W. F., Jr.

Power, Michael D. See Levy, Efrat.

Price D. L. See Sisodia, S. S.  
 Price, Donald R. and Challoner, David R.: Full disclosure at the University of Florida (letter). p1280 15 June 1990.  
 Price, Madelon T. See Olney, John W.  
 Prusiner, Stanley B. See Lopez, Charles D.  
 Pugh, B. Franklin. See Peterson, Michael Gregory.

## Q

Qiu, Wei Qiao; de Bruin, Derik; Brownstein, Bernard H.; Pearse, Roger; Ravetch, Jeffrey V.: Organization of the human and mouse low-affinity Fc $\gamma$ R genes: duplication and recombination. p732 11 May 1990.  
 Quinones, L. See Park, M. A.

## R

Rado, Thomas A. See Bubien, James K.  
 Raines, Elaine W. See Ross, Russell.  
 Raistrick, Ian D. See Conradson, Steven D.  
 Ramakrishnan, V. See Mangel, Walter F.  
 Ramsdell, Fred and Fowlkes, B. J.: Clonal deletion versus clonal anergy: the role of the thymus in inducing self tolerance. p1342 15 June 1990.  
 Ramsey, Norman F.: Experiments with separated oscillatory fields and hydrogen masers. p1612 29 June 1990.  
 Randall, L. L.; Topping, T. B.; Hardy, S. J. S.: No specific recognition of leader peptide by SecB, a chaperone involved in protein export. p860 18 May 1990.  
 Ravetch, Jeffrey V. See Qiu, Wei Qiao.  
 Razafindratsita, Alain. See Bidart, Jean-Michel.  
 Redshaw, Sally. See Roberts, Noel A.  
 Regier, Dean. See Kestler, Harry.  
 Rehms, Aden A. See Gust, Devens.  
 Reilly, F. Kent, III: review of *Regional Perspectives on the Olmec*, edited by Robert J. Sharer and David C. Grove. p1139 1 June 1990.  
 Reilly, James F., II. See MacDonald, I. Rosman.  
 Reilly, William K.: Asbestos removal (letter). p1064 1 June 1990.  
 Repenning, Charles A.: Oldest pinniped (technical comment). p499 27 Apr 1990.  
 Rhee, Sue Goo. See Choi, Kwan Yong. See also Margolis, B.  
 Rich, Keith M. and Hollowell, James P.: Flunarizine protects neurons from death after axotomy or NGF deprivation. p1419 15 June 1990.  
 Richards, Juan L.: review of *The History of Modern Mathematics*, edited by David E. Rowe and John McCleary. p1561 22 June 1990.  
 Ricklefs, Robert E.: review of *Bird Flight Performance*, by C. J. Pennycuik. p1556 22 June 1990.  
 Ringler, Douglas. See Kestler, Harry.  
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 Roberts, Leslie (news): An animal genome project? p550 4 May 1990. British radiation study throws experts into tizzy. p24 6 Apr 1990. Climate extravaganza bombs. p436 27 Apr 1990. The genetic map is back on track after delays. p805 18 May 1990. Genome backlash going full force. p804 18 May 1990. Genome project: an experiment in sharing. p953 25 May 1990. The great clone giveaway. p956 25 May 1990. Plant maps, public and private. p551 4 May 1990. Tough times ahead for the genome project. p1600 29 June 1990. What to do with an animal map. p552 4 May 1990. The worm project. p1310 15 June 1990.  
 Roberts, Noel A.; Martin, Joseph A.; Kinchington, Derek; Broadhurst, Anne V.; Craig, J.

Charles; Duncan, Ian B.; Galpin, Sarah A.; Handa, Balraj K.; Kay, John; Kröhn, Antonin; Lambert, Robert W.; Merrett, John H.; Mills, John S.; Parkes, Kevin E. B.; Redshaw, Sally; Ritchie, Alison J.; Taylor, Debra L.; Thomas, Gareth J.; Machin, Peter J.: Rational design of peptide-based HIV proteinase inhibitors. p358 20 Apr 1990.  
 Robertson, Douglas S. See Douglas, Bruce C.  
 Robertson, Harold A. See Rusak, Benjamin.  
 Robins, Keith C. See LaRochelle, William J.  
 Robles, Steven J.; Breton, Jacques; Youvan, Douglas C.: Partial symmetrization of the photosynthetic reaction center. p1402 15 June 1990.  
 Rocke, Alan J.: review of *Science in Germany*, edited by Kathryn M. Olesko. p614 4 May 1990.  
 Rodhe, Henning: A comparison of the contribution of various gases to the greenhouse effect. p1217 8 June 1990.  
 Rogers, Clare E. See Wilson, James M.  
 Romer, Robert H.: Ads in scientific journals (letter). p144 13 Apr 1990.  
 Ronnett, Gabriele V.; Hester, Lynda D.; Nye, Jeffrey S.; Connors, Karen; Snyder, Solomon H.: Human cortical neuronal cell line: establishment from a patient with unilateral megalecephaly. p603 4 May 1990.  
 Roos, R. A. C. See Van Broeckhoven, C.  
 Roper, Clyde F. E.: review of *Traité de Zoologie*, edited by Pierre P. Grasse. p898 18 May 1990.  
 Rosema, Keith D. See Ostro, Steven J.  
 Rosen, Craig A. See Nelbock, Peter.  
 Rosen, Michael K.; Standart, Robert F.; Galat, Andrzej; Nakatsuka, Masashi; Schreiber, Stuart L.: Inhibition of FKBP rotamase activity by immunosuppressant FK506: twisted amide surrogate. p863 18 May 1990.  
 Rosenberg, Daniel P.: Cynomolgus monkeys (letter). p1473 22 June 1990.  
 Rosenzweig, Anthony. See Wucherpfennig, Kai W.  
 Ross, Russell; Masuda, Junichi; Raines, Elaine W.; Gown, Allen M.; Katsuda, Shogo; Sasahara, Masakiyo; Malden, L. Trevor; Masuko, Hideyuki; Sato, Hiroshi: Localization of PDGF-B protein in macrophages in all phases of atherogenesis. p1009 25 May 1990.  
 Ross, Stuart A. See Casanova, James E.  
 Ross, Theodora S.; Tait, Jonathan F.; Majerus, Philip W.: Identity of inositol 1,2-cyclic phosphate 2-phosphohydrolase with lipocortin III. p605 4 May 1990.  
 Roth, Susan H. See Adler, Nancy E.  
 Rouas, Nathalie. See Bidart, Jean-Michel.  
 Rubincam, David Parry: Mars: change in axial tilt due to climate? p720 11 May 1990.  
 Rubinstein, Ellis (news): Untold story of HUT78. p1499 22 June 1990.  
 Rusak, Benjamin; Robertson, Harold A.; Wisden, William; Hunt, Stephen P.: Light pulses that shift rhythms induce gene expression in the suprachiasmatic nucleus. p1237 8 June 1990.  
 Russo, Nancy F. See Adler, Nancy E.

## S

Safran, S. A.; Pincus, P.; Andelman, David: Theory of spontaneous vesicle formation in surfactant mixtures. p354 20 Apr 1990.  
 Sakai, H.; Gamo, T.; Kim, E.-S.; Tsutsumi, M.; Tanaka, T.; Ishibashi, J.; Wakita, H.; Yamano, M.; Oomori, T.: Venting of carbon dioxide-rich fluid and hydrate formation in mid-Okinawa trough backarc basin. p1093 1 June 1990.  
 Sakai, Yutaka. See Yamada, Takuma.

Salas, Margarita. See Serrano, Manuel.  
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 Samuels, Sheldon W.: Asbestos, carcinogenicity, and public policy (letter). p795 18 May 1990.  
 Sanchez, Elizabeth. See Ding, Aihao H.  
 Sanchez, Yolanda and Lindquist, Susan L.: HSP104 required for induced thermotolerance. p1112 1 June 1990.  
 Sander, Stanley P. See Yung, Yuk L.  
 Sasahara, Masakiyo. See Ross, Russell.  
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 Saunders, Jeffrey J. and McMillan, R. Bruce: Early landscape archeology (letter). p1176 8 June 1990.  
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 Scheuer, Paul J.: Some marine ecological phenomena: chemical basis and biomedical potential. p173 13 Apr 1990.  
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 Schlessinger, J. See Margolis, B.  
 Schmaier, Alvin H. See Van Nostrand, William E.  
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 Schneider, Donald P. See Bahcall, John N.  
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 Schreiber, Stuart L. See Rosen, Michael K.  
 Schuyler, Robert L.: review of *The Chinese of Early Tucson*, by Florence C. Lister and Robert H. Lister. p908 18 May 1990.  
 Schwager, Sally: review of *American Teachers*, edited by Donald Warren. p388 20 Apr 1990.  
 Schwartz, Ronald H.: A cell culture model for T lymphocyte clonal anergy. p1349 15 June 1990.  
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 Schweinhart, Lawrence J. and Weikart, David P.: Research support for Head Start (letter). p1174 8 June 1990.  
 Scudder, Charles A. See Moschovakis, Adonis K.  
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 Sechler, Joan M. G. See Leto, Thomas L.  
 Segatto, Oreste. See Di Fiore, Pier Paolo.  
 Sehgal, Prabhat. See Kestler, Harry.  
 Seidel, Robert W.: review of *The Restructuring of Physical Science in Europe and the United States, 1945-1960*, edited by Michelangelo De Maria, Mario Grilli, and Fabio Sebastiani. p872 18 May 1990.  
 Seidman, J. G. See Wucherpfennig, Kai W.  
 Seiler, Gretchen: AAAS Council meeting, 1990 (AAAS). p611 4 May 1990.  
 Selkoe, Dennis J.: Deciphering Alzheimer's disease: the amyloid precursor protein yields new clues. p1058 1 June 1990.  
 Serrano, Manuel; Salas, Margarita; Hermoso, José M.: A novel nucleoprotein complex at a replication origin. p1012 25 May 1990.  
 Shapiro, Irwin I. See Ostro, Steven J.  
 Shapiro, Jerry L.: Grand Canyon haze (letter). p145 13 Apr 1990.  
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 Shulman, Gordon L. See Corbetta, Maurizio.  
 Siebel, Christian W. and Rio, Donald C.: Regulated splicing of the *Drosophila* P transposable element third intron in vitro: somatic repression. p1200 8 June 1990.  
 Siebenlist, Ulrich. See Wright, John J.  
 Sietmann, Richard (news): East German scientists wary about unification. p23 6 Apr 1990.  
 Sieweke, Michael H.; Thompson, Nancy L.; Sporn, Michael B.; Bissel, Mina J.: Mediation of wound-related Rous sarcoma virus tumori-



- genesis by TGF- $\beta$ . p1656 29 June 1990.
- Siliciano, Robert F. See Orentas, Rimas J.
- Sim, Sang Soo. See Choi, Kwan Yong.
- Sims, John E. See Fanslow, William C.
- Sinervo, Barry and Huey, Raymond B.: Allometric engineering: an experimental test of the causes of interpopulational differences in performance. p1106 1 June 1990.
- Singer, J. R.; Grünbaum, F. Alberto; Kohn, Philip; Zubelli, Jorge Passamani: Image reconstruction of the interior of bodies that diffuse radiation. p990 25 May 1990.
- Singer, Maxine F.: NIH director: recommendations (letter). p795 18 May 1990.
- Singer, Rolf. See Poinar, George O., Jr.
- Sinha, Animesh A.; Lopez, M. Theresa; McDevitt, Hugh O.: Autoimmune diseases: the failure of self tolerance. p1380 15 June 1990.
- Sisodia, S. S.; Koo, E. H.; Beyreuther, K.; Unterbeck, A.; Price D. L.: Evidence that  $\beta$ -amyloid protein in Alzheimer's disease is not derived by normal processing. p492 27 Apr 1990.
- Skolnick, Mark H. See Barker, David F.
- Skorecki, K. See Margolis, B.
- Slade, Martin A. See Muhleman, Duane O.
- Sleep, Norman: review of *Seismic Tomography and Mantle Circulation*, edited by R. K. O'Nions and B. Parsons. p1141 1 June 1990.
- Smeyne, Richard J. See Oberdick, John.
- Smisek, David L. and Hoagland, David A.: Electrophoresis of flexible macromolecules: evidence for a new mode of transport in gels. p1221 8 June 1990.
- Smit, Lia. See Buck, Henk M.
- Smith, Alan J. See Jones, Susan M.
- Smith, Craig A.; Davis, Terri; Anderson, Dirk; Solam, Lisabeth; Beckmann, M. Patricia; Jerzy, Rita; Dower, Steven K.; Cosman, David; Goodwin, Raymond G.: A receptor for tumor necrosis factor defines an unusual family of cellular and viral proteins. p1019 25 May 1990.
- Smith, Daniel Scott: review of *Sickness, Recovery and Death*, by James C. Riley. p1241 8 June 1990.
- Smith, David R.: Water temperatures (letter). p423 27 Apr 1990.
- Smith, Donna E. See Waxman, Lloyd.
- Smith, Gale E. See Orentas, Rimas J.
- Smith, John K.: review of *The American Synthetic Rubber Research Program*, by Peter J. T. Morris. p892 18 May 1990.
- Smith, Raymond P.; Higuchi, Darryl A.; Broze, George J., Jr.: Platelet coagulation factor  $X_{IIa}$  inhibitor, a form of Alzheimer amyloid precursor protein. p1126 1 June 1990.
- Smith, Richard D. See Loo, Joseph A.
- Smith, Stewart S. See Phillips, Fred M.
- Smithies, Oliver. See Koller, Beverly H.
- Smolley John R. See Bridge, John H. B.
- Smullin, Louis. See Beranek, Leo L.
- Snyder, Beth A. and Nicholson, Ralph L.: Synthesis of photoalexins in sorghum as a site-specific response to fungal ingress. p1637 29 June 1990.
- Snyder, Solomon H. See Ronnett, Gabriele V.
- Solam, Lisabeth. See Smith, Craig A.
- Sowers, Arthur E.: review of *Electric Fields in Vertebrate Repair*, by Richard B. Borgens, Kenneth R. Robinson, Joseph W. Vanable, Jr., and Michael E. McGinnis, with Colin D. McCaig. p1027 25 May 1990.
- Spencer, Peter S.; Allen, Richard G.; Kisby, Glen F.; Ludolph, Albert C.: Excitotoxic disorders (letter). p144 13 Apr 1990.
- Spiegelberg, Hans. See Lencert, Petar.
- Spitzer, Kenneth W. See Bridge, John H. B.
- Sporn, Michael B. See Sieweke, Michael H.
- Sprent, Jonathan. See Webb, Susan R.
- ; Gao, Er-Kai; Webb, Susan R.: T cell reactivity to MHC molecules: immunity versus tolerance. p1357 15 June 1990.
- Šrodoň, Jan. See Eberl, Dennis D.
- Standaert, Robert F. See Rosen, Michael K.
- Stanfield, Robyn L.; Fieser, Terry M.; Lerner, Richard A.; Wilson, Ian A.: Crystal structures of an antibody to a peptide and its complex with peptide antigen at 2.8 Å. p712 11 May 1990.
- Stanton, Maureen L. See Young, Helen J.
- Steinbach, Martin J.: U.S.—China collaboration (letter). p1594 29 June 1990.
- Stewart, John M. See Hahn, Karl W.
- Stojilković, Stanko S.; Merelli, Francesco; Iida, Toshihiko; Kršmanović, Lazar Z.: Endothelin stimulation of cytosolic calcium and gonadotropin secretion in anterior pituitary cells. p1663 29 June 1990.
- Stokes, Raymond G.: review of *Science, Technology, and Reparations*, by John Gimbel. p1241 8 June 1990.
- Stormer, H. L. See Eisenstein, J. P.
- Story, Jon A. and Weaver, Connie M.: U.S.—China collaboration (letter). p1594 29 June 1990.
- Storz, Gisela; Tartaglia, Louis A.; Ames, Bruce N.: Transcriptional regulator of oxidative stress-inducible genes: direct activation by oxidation. p189 13 Apr 1990.
- Strickler, James H. See Denk, Winfried.
- Stubblebine, Marcia. See Kovats, Susan.
- Sudhalter, Judith. See Moses, Marsha A.
- Sugarman, Stephen D.: The need to reform personal injury law leaving scientific disputes to scientists. p823 18 May 1990.
- Sukumar, Saraswati. See Kumar, Ramesh.
- Summers, Barbara D. See Kaner, Robert J.
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- T**
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- Takeuchi, Yutaka. See Yamada, Takuma.
- Tanaka, T. See Sakai, H.
- Tanese, Naoko. See Peterson, Michael Gregory.
- Tartaglia, Louis A. See Storz, Gisela.
- Taubes, Gary (news): Cold fusion conundrum at Texas A&M. p1299 15 June 1990.
- Taylor, B. See Gill, J.
- Taylor, Bruce E. See Eberl, Dennis D.
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- Tazaki, K. See Gill, J.
- Thomas, Gareth J. See Roberts, Noel A.
- Thompson, Nancy L. See Sieweke, Michael H.
- Tjian, Robert. See Peterson, Michael Gregory.
- Todd, Robert F., III. See Wilson, James M.
- Tong, S. Y. See Wang, X. D.
- Tonner, B. P. See Wang, X. D.
- Topping, T. B. See Randall, L. L.
- Torssander, P. See Gill, J.
- Treichler, Paula A.: review of *The Myth of Heterosexual AIDS*, by Michael Fumento. p232 13 Apr 1990.
- Tric, Todd T. See Gust, Devens.
- Troalen, Frederic. See Bidart, Jean-Michel.
- Trounstein, Mary L. See Moore, Kevin W.
- Tryggvason, Karl. See Barker, David F.
- Tsipis, Kosta. See Beranek, Leo L.
- Tsutsumi, M. See Sakai, H.
- U and V**
- Ueda, Issaku. See Chiou, Jang-Shing.
- Uehara, Fumiuyuki; Matthes, Michael T.; Yasumura, Douglas; LaVail, Matthew M.: Light-evoked changes in the interphotoreceptor matrix. p1662 29 June 1990.
- Ullrich, A. See Margolis, B.
- Unterbeck, A. See Sisodia, S. S.
- Van Andel, Tj. H.: review of *Gorda Ridge*, edited by Gregory R. McMurray. p905 18 May 1990.
- Van Atta, Reuel B. See Dange, V.
- Van Broeckhoven, C.; Haan, J.; Bakker, E.; Hardy, J. A.; Van Hul, W.; Wehnert, A.; Vegter-Van der Vlis, M.; Roos, R. A. C.: Amyloid  $\beta$  protein precursor gene and hereditary cerebral hemorrhage with amyloidosis (Dutch). p1120 1 June 1990.
- van Duinen, Sjoerd G. See Levy, Efrat.
- van Genderen, Marcel H. P. See Buck, Henk M.
- Van Hove, M. A. See Egelhoff, W. F., Jr.
- Van Hul, W. See Van Broeckhoven, C.
- Van Nostrand, William E.; Schmaier, Alvin H.; Farrow, Jeffrey S.; Cunningham, Dennis D.: Protease nexin-II (amyloid  $\beta$ -protein precursor): a platelet  $\alpha$ -granule protein. p745 11 May 1990.
- van Rood, Jon J. and Claas, Frans H. J.: The influence of allogeneic cells on the human T and B cell repertoire. p1388 15 June 1990.
- Vedvick, Thomas S. See Jay, Scott D.
- Vegter-Van der Vlis, M. See Van Broeckhoven, C.
- Vieira, Paulo. See Moore, Kevin W.
- Villarrubia, J. S. See Boland, John J.
- Viscusi, W. Kip. See Zeckhauser, Richard J.
- Vlasuk, George P. See Waxman, Lloyd.
- Volpp, Bryan D. See Leto, Thomas L.
- von Boehmer, Harald and Kisielow, Pawel: Self-nonspecific discrimination by T cells. p1369 15 June 1990.
- W-Z**
- Wakita, H. See Sakai, H.
- Walbot, Virginia. See Levy, Avraham A.
- Waldrop, M. Mitchell (news): Astro: the first and last of its kind? p1080 1 June 1990. Bittersweet findings. p817 18 May 1990. Fast, cheap, and out of control. p959 25 May 1990. Hubble trouble. p1600 29 June 1990. Learning to drink from a fire hose. p674 11 May 1990. The long, sad saga of Mount Graham. p1479 22 June 1990. Polymer chemists are having a ROMP. p304 20 Apr 1990. Purging cancer from the bone marrow. p816 18 May 1990. A safer way to make plastics. p816 18 May 1990. Seeing the unseeable. p1189 8 June 1990. Shrink-wrapped transplants for Parkinson's. p816 18 May 1990. Solar neutrino deficit confirmed? p1607 29 June 1990. Solar neutrino-sunspot connection found. p444 27 Apr 1990.
- Walstedt, R. E. and Warren, W. W., Jr.: Nuclear resonance properties of  $YBa_2Cu_3O_{6+x}$  superconductors. p1082 1 June 1990.
- Wang, Chung-Ho and Burnett, William C.: Holocene mean uplift rates across an active plate collision boundary in Taiwan. p204 13 Apr 1990.
- Wang, Jean Y. J. See Kipreos, Edward T.
- Wang, X. D.; Han, Z. L.; Tonner, B. P.; Chen, Y.; Tong, S. Y.: Auger electron angular distributions from surfaces: forward focusing or silhouettes? p1129 1 June 1990.
- Wang, Yanbin; Guyot, Francois; Yeganeh-Haeri, Amir; Liebermann, Robert C.: Twinning in  $MgSiO_3$  perovskite. p468 27 Apr 1990.
- Wang, Yue Li. See Wu, Xian Liang.
- Ward, Pamela J. See Esch, Fred S.
- Warren, W. W., Jr. See Walstedt, R. E.
- Waters, A. P.: Malaria vaccines (letter). p422 27 Apr 1990.

- Watson, James D.: The Human Genome Project: past, present, and future. p44 6 Apr 1990.
- Watt, Ward B.: The decline of systematics: clarifying the causes (letter). p18 6 Apr 1990.
- Waxman, Lloyd; Smith, Donna E.; Arcuri, Karen E.; Vlasuk, George P.: Tick anticoagulant peptide (TAP) is a novel inhibitor of blood coagulation factor Xa. p593 4 May 1990.
- Weaver, Connie M. See Story, Jon A.
- Webb, S. David: review of *Frozen Fauna of the Mammoth Steppe*, by R. Dale Guthrie. p900 18 May 1990.
- Webb, Susan R. See Sprent, Jonathan.
- and Sprent, Jonathan: Induction of neonatal tolerance to Mls<sup>a</sup> antigens by CD8<sup>+</sup> T cells. p1643 29 June 1990.
- Webb, Watt W. See Denk, Winfried.
- Wedel, Andrew; Weiss, David S.; Popham, David; Dröge, Peter; Kustu, Sydney: A bacterial enhancer functions to tether a transcriptional activator near a promoter. p486 27 Apr 1990.
- Wehnert, A. See Van Broeckhoven, C.
- Wei, Aguan; Covarrubias, Manuel; Butler, Alice; Baker, Keith; Pak, Michael; Salkoff, Lawrence: K<sup>+</sup> current diversity is produced by an extended gene family conserved in *Drosophila* and mouse. p599 4 May 1990.
- Weigel, Detlef; Jürgens, Gerd; Klingler, Martin; Jäckle, Herbert: Two gap genes mediate maternal terminal pattern information in *Drosophila*. p495 27 Apr 1990.
- Weikart, David P. See Schweinhart, Lawrence J.
- Weiner, Howard L. See Wucherpfennig, Kai W.
- Weis, John H.: Usefulness of the Human Genome Project (letter). p1595 29 June 1990.
- Weiss, David S. See Wedel, Andrew.
- Welch, William J. See Beckmann, Richard P.
- Wemmer, David. See Janes, Susan M.
- Wendorf, F. See Brooks, A. S.
- Werness, Bruce A.; Levine, Arnold J.; Howley, Peter M.: Association of human papillomavirus types 16 and 18 E6 proteins with p53. p76 6 Apr 1990.
- White, Warren H.: Cooling towers, not "smokestacks" (letter). p802 18 May 1990.
- Widmer, Michael B. See Fanslow, William C.
- Wilbur, Henry M.: review of *Alternative Life-History Styles of Animals*, edited by Michael N. Bruton. p750 11 May 1990.
- Williams, Evan R. and Zare, Richard N.: Detection of concealed explosives (letter). p1471 22 June 1990.
- Williams, Kelly P. See Herendeen, Daniel R.
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- Williams, Sarah (news): Better heart preservation. p166 13 Apr 1990. Cocaine's harmful effects. p166 13 Apr 1990. Identifying fossils by computer. p1080 1 June 1990. Neglected neurotoxins. p958 25 May 1990. Tapping into nerve conversations. p555 4 May 1990.
- Williams, Timothy C.: review of *Flight Strategies of Migrating Hawks*, by Paul Kerlinger. p1429 15 June 1990.
- Wilson, Ian A. See Stanfield, Robyn L.
- Wilson, James M.; Ping, April Joy; Krauss, John C.; Mayo-Bond, Laura; Rogers, Clare E.; Anderson, Donald C.; Todd, Robert F., III: Correction of CD18-deficient lymphocytes by retrovirus-mediated gene transfer. p1413 15 June 1990.
- Wilson, Thomas P.: Light bending: prediction and theory (letter). p422 27 Apr 1990.
- Winston, Mark L.: review of *Ecology and Natural History of Tropical Bees*, by David W. Roubik. p1026 25 May 1990.
- Wisden, William. See Rusak, Benjamin.
- Wolf, Douglas A. See Mincy, Ronald B.
- Wolfman, Alan and Macara, Ian G.: A cytosolic protein catalyzes the release of GDP from p21<sup>ras</sup>. p67 6 Apr 1990.
- Wolpe, Paul Roor: Health care rationing (editorial). p645 11 May 1990.
- Wood, Bernard J.; Bryndzia, L. Taras; Johnson, Kathleen E.: Mantle oxidation state and its relationship to tectonic environment and fluid speciation. p337 20 Apr 1990.
- Woodruff, D. P.: Auger electron angular distributions from surfaces: forward focusing or silhouettes? p1131 1 June 1990.
- Wright, John J.; Gunter, Kurt C.; Mitsuya, Hiroaki; Irving, Steven G.; Kelley, Kathleen; Siebenlist, Ulrich: Expression of a zinc finger gene in HTLV-I- and HTLV-II-transformed cells. p588 4 May 1990.
- Wright, Karen (news): Mycoplasmas in the AIDS spotlight. p682 11 May 1990.
- Wu, Xian Liang; Zhang, Zhe; Wang, Yue Li; Lieber, Charles M.: Structural and electronic role of lead in (PbBi)<sub>2</sub>Sr<sub>2</sub>CaCu<sub>2</sub>O<sub>8</sub> superconductors by STM. p1211 8 June 1990.
- Wucherpfennig, Kai W.; Ota, Kohei; Endo, Noriaki; Seidman, J. G.; Rosenzweig, Anthony; Weiner, Howard L.; Hafler, David A.: Shared human T cell receptor V<sub>β</sub> usage to immunodominant regions of myelin basic protein. p1016 25 May 1990.
- Wunsch, Carl: review of *El Niño, La Niña, and the Southern Oscillation*, by S. George Philander. p904 18 May 1990.
- Wyatt, Gail E. See Adler, Nancy E.
- Wyss, André R. See Berta, Annalisa.
- Yamada, Takuma; Takeuchi, Yutaka; Komori, Naoka; Kobayashi, Hisao; Sakai, Yutaka; Hotta, Yoshiaki; Matsumoto, Hiroyuki: A 49-kilodalton phosphoprotein in the *Drosophila* photoreceptor is an arrestin homolog. p483 27 Apr 1990.
- Yamano, M. See Sakai, H.
- Yasumura, Douglas. See Uehara, Fumiyuki.
- Yeganeh-Haeri, Amir. See Wang, Yanbin.
- Yeomans, Donald K. See Ostro, Steven J.
- Yoshihara, Teruhiko. See Ae, Noriharu.
- Yost, C. Spencer. See Lopez, Charles D.
- Young, Helen J. and Stanton, Maureen L.: Influence of environmental quality on pollen competitive ability in wild radish. p1631 29 June 1990.
- Youvan, Douglas C. See Robles, Steven J.
- Yung, Yuk L.; Allen, Mark; Crisp, David; Zurek, Richard W.; Sander, Stanley P.: Spatial variation of ozone depletion rates in the springtime Antarctic polar vortex. p721 11 May 1990.
- Zackson, Saul. See Oberdick, John.
- Zalenskaya, Katya. See Kashlev, Mikhail.
- Zalutsky, Robert A. and Nicoll, Roger A.: Comparison of two forms of long-term potentiation in single hippocampal neurons. p1619 29 June 1990.
- Zanetti, Maurizio. See Lenert, Petar.
- Zare, Richard N. See Williams, Evan R.
- Zeckhauser, Richard J. and Viscusi, W. Kip: Risk within reason. p559 4 May 1990.
- Zenderland, Leila: review of *The Burt Affair*, by Robert B. Joynson. p884 18 May 1990.
- Zhang, Zhe. See Wu, Xian Liang.
- Zhou, Jing. See Barker, David F.
- Zhou, Qiang. See Kao, C. Cheng.
- Zigler, Edward: Research support for Head Start (letter). p1176 8 June 1990.
- Zilberstein, A. See Margolis, B.
- Zorunski, Charles. See Olney, John W.
- Zreda, Marek G. See Phillips, Fred M.
- Zubelli, Jorge Passamani. See Singer, J. R.
- Zucker, Martin S. See Fetter, Steve.
- Zurek, Richard W. See Yung, Yuk L.
- Zurek, Wojciech H.: review of *The Emperor's New Mind*, by Roger Penrose. p880 18 May 1990.
- Zwally, H. Jay; Brenner, Anita C.; Major, Judy A.; Bindshadler, Robert A.; Marsh, James G.: Greenland ice sheet: is it growing or shrinking? (letter). p288 20 Apr 1990.

